

## **Dissemination of Radar Products**

Interest has been expressed in understanding what the NWS plans are to migrate from the current NIDS agreements to future dissemination systems.

The National Weather Service (NWS) will be centralizing the collection of radar products to meet its requirements. A request for proposal for collection of radar products has been issued as an option on the recompeted NOAA Weather Wire. Once the radar products are collected at NWS headquarters, they will be made available via a server to all users. Other possible ways of distributing products include the use of NOAAPort and the Local Data and Acquisition Dissemination System.

Mike Carelli and Vico Baer will be present at the workshop to further explain this issue and to answer your questions.

## **DISSEMINATION OF WSR-88D PRODUCTS**

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- \* The agreements between the NWS and the NIDS providers expire September 30, 1999.**
- \* The NWS has no long term plans to continue NIDS.**
- \* It is necessary to extend NIDS for a limited time after September 30.**
- \* The NWS plans to fully and openly disseminate radar products once the extended NIDS agreements expire.**
- \* The NWS has a validated requirement to centrally collect radar products. This requirement can be met in two ways.**
  - 1. The NWS collects the products internally (i.e., the AWIPS WAN).**
  - 2. A contractor collects the products for the NWS (i.e., the NWWS option).**

## **DISSEMINATION OF WSR-88D PRODUCTS**

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- \* Dissemination of radar products during the period of the extended NIDS agreements.**
  - 1. NIDS.**
  - 2. Eight test products from 30 radars will be openly transmitted over NOAAPORT to support the MARD. When encryption becomes available, encrypted products from all radars will be transmitted to support NWS operations.**
  - 3. Government agencies may access the NWS central server for test purposes.**
  - 4. A limited number of products will be disseminated to the emergency management community via LDAD. The emergency managers will be notified that these products are not to be redistributed.**
  
- \* Dissemination of radar products after the extended NIDS agreements expire.**
  - 1. Products will be transmitted over NOAAPORT in an unencrypted form.**
  - 2. Any user will be able to access products from the NWS server. The entire NIDS products set and the Archive III products will be available.**
  - 3. A limited number of products will be disseminated via LDAD.**
  - 4. Products will be “pushed” from the NWS server to Internet providers.**

**WSR-88D PRODUCTS THAT WILL BE TRANSMITTED OVER NOAAPORT  
TO SUPPORT THE MODERNIZATION AND ASSOCIATED RESTRUCTURING DEMONSTRATION (MARD)**

**PRODUCTS THAT WILL BE TRANSMITTED EVERY VOLUME SCAN  
WHENEVER THE RADAR IS OPERATING IN PRECIPITATION MODE**

<b>PRODUCT IDENTIFIER</b>	<b>PRODUCT</b>	<b>DATA LEVELS</b>	<b>RESOLUTION</b>	<b>RANGE</b>
19/R	Base Reflectivity (Lowest Elevation Angle)	16	0.54 nmi x 1°	124 nmi
27/V	Base Radial Velocity (Lowest Elevation Angle)	16	0.54 nmi x 1°	124 nmi
37/CR	Composite Reflectivity	16	0.54 x 0.54 nmi	124 nmi
56/SRM	Storm Relative Mean Radial Velocity (Lowest Elevation Angle)	16	0.54 nmi x 1°	124 nmi
57/VIL	Vertical Integrated Liquid	16	2.2 x 2.2 nmi	124 nmi
80/SRP	Surface Rainfall Accumulation - Storm Total	16	1.1 x 1.1 nmi	124 nmi

**PRODUCTS THAT WILL BE TRANSMITTED EVERY 30 MINUTES  
IN PRECIPITATION AND CLEAR AIR MODES**

<b>PRODUCT IDENTIFIER</b>	<b>PRODUCT</b>	<b>DATA LEVELS</b>	<b>RESOLUTION</b>	<b>RANGE</b>
74/RCM	Radar Coded Message	-	-	-
81/DPA	Hourly Digital Precipitation Array	-	-	-

## MODERNIZATION AND ASSOCIATED RESTRUCTURING DEMONSTRATION (MARD) SITES

RDA SITE IDENTIFIER	WSR-88D SITE	RDA SITE IDENTIFIER	WSR-88D SITE
LZK	Little Rock, AR	UEX	Hastings, NE
SRX	Western Arkansas	LNK	North Platte, NE
FTG	Denver/Boulder, CO	OAX	Omaha, NE
GJX	Grand Junction, CO	FDR	Frederick, OK
PUX	Pueblo, CO	TLX	Oklahoma City, OK (Norman)
DMX	Des Moines, IA	INX	Tulsa, OK
DVN	Quad Cities, IA (Davenport)	VNX	Vance Air Force Base, OK
DDC	Dodge City, KS	UDX	Rapid City, SD
GLD	Goodland, KS	FSD	Sioux Falls, SD
TWX	Topeka, KS	AMA	Amarillo, TX
ICT	Wichita, KS	FWS	Dallas/Fort Worth, TX
SHV	Shreveport, LA	DYX	Dyess Air Force Base, TX
EAX	Kansas City/Pleasant Hill, MO	LBB	Lubbock, TX
SGF	Springfield, MO	CYS	Cheyenne, WY
LSX	St. Louis, MO	RIW	Riverton, WY

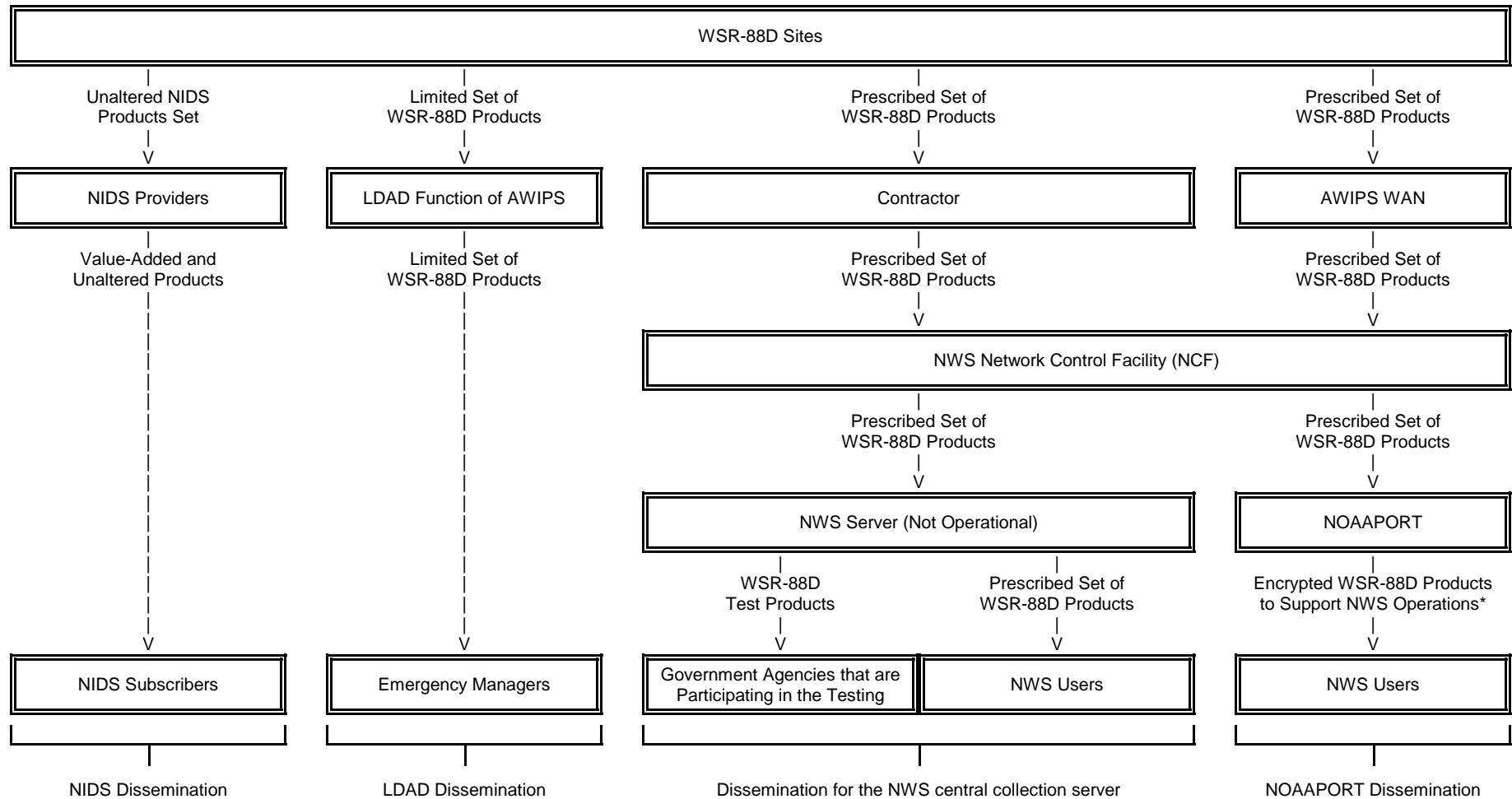
**WSR-88D PRODUCTS THAT WILL BE AVAILABLE FROM THE NWS SERVER  
AFTER THE EXTENDED NIDS AGREEMENTS EXPIRE**

PRODUCT IDENTIFIER	PRODUCT	DATA LEVELS	RESOLUTION	RANGE
19/R	Base Reflectivity (Lowest Four Elevation Angles)	16	0.54 nmi x 1°	124 nmi
20/R	Base Reflectivity (Lowest Elevation Angle)	16	1.1 nmi x 1°	248 nmi
25/V	Base Radial Velocity (Lowest Elevation Angle)	16	0.13 nmi x 1°	32 nmi
27/V	Base Radial Velocity (Lowest Four Elevation Angles)	16	0.54 nmi x 1°	124 nmi
28/SW	Spectrum Width (Lowest Elevation Angle)	8	0.13 nmi x 1°	32 nmi
30/SW	Spectrum Width (Lowest Elevation Angle)	8	0.54 nmi x 1°	124 nmi
34/CFC	Clutter Filter Control	-	-	-
36/CR	Composite Reflectivity	8	2.2 x 2.2 nmi	248 nmi
37/CR	Composite Reflectivity	16	0.54 x 0.54 nmi	124 nmi
38/CR	Composite Reflectivity	16	2.2 x 2.2 nmi	248 nmi
41/ET	Echo Tops	16	2.2 x 2.2 nmi	124 nmi
47/SWP	Severe Weather Probability	-	-	-
48/VWP	Velocity Azimuth Display (VAD) Winds	-	-	-
56/VWP	Storm Relative Mean Radial Velocity (Lowest Four Elevation Angles)	16	0.54 nmi x 1°	124 nmi
57/VIL	Vertical Integrated Liquid	16	2.2 x 2.2 nmi	124 nmi
58/STI	Storm Tracking Information	-	-	-

**WSR-88D PRODUCTS THAT WILL BE AVAILABLE FROM THE NWS SERVER  
AFTER THE EXTENDED NIDS AGREEMENTS EXPIRE**

PRODUCT IDENTIFIER	PRODUCT	DATA LEVELS	RESOLUTION	RANGE
59/HI	Hail Index	-	-	-
60/M	Mesocyclone	-	-	-
61/TVS	Tornado Vortex Signature	-	-	-
62/SS	Storm Structure	-	-	-
65/LRM	Layer Composite Reflectivity - Low Level	8	2.2 x 2.2 nmi	248 nmi
66/LRM	Layer Composite Reflectivity - Middle Level	8	2.2 x 2.2 nmi	248 nmi
67/APR	Layer Composite Reflectivity with AP Removed	8	2.2 x 2.2 nmi	248 nmi
74/RCM	Radar Coded Message	-	-	-
75/FTM	Free Text Message	-	-	-
78/OHP	Surface Rainfall Accumulation - One Hour Running Total	16	1.1 nmi x 1°	124 nmi
79/THP	Surface Rainfall Accumulation - Three Hour Total	16	1.1 nmi x 1°	124 nmi
80/STP	Surface Rainfall Accumulation - Storm Total	16	1.1 nmi x 1°	124 nmi
81/DPA	Hourly Digital Precipitation Array	-	-	-
82/SPD	Supplemental Precipitation Data	-	-	-
83/IRM	Unedited Radar Coded Message	-	-	-
90/LRM	Layer Composite Reflectivity - High Level	8	2.2 x 2.2 nmi	248 nmi

# DISSEMINATION OF WSR-88D PRODUCTS DURING THE PERIOD OF THE EXTENDED NIDS AGREEMENTS



\* Eight products from 30 WSR-88Ds will be transmitted unencrypted to support the MARD and OT+E testing.

# DISSEMINATION OF WSR-88D PRODUCTS AFTER THE EXTENDED NIDS AGREEMENTS EXPIRE

